



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/718,194
Source: JFWO
Date Processed by STIC: 9/23/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

~~TO REDUCE~~ ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER**
VERSION 4.2 PROGRAM ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box-1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):
U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 10/718,194

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.

- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:

(2) INFORMATION FOR SEQ ID NO: X (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: X (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.

<210> sequence id number
<400> sequence id number
000

- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.

Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name: (Genus/species). <220>-<223> section is required when <213> response is Unknown or Artificial Sequence

- 11 Use of <220>

Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

- 13 Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFWO

RAW SEQUENCE LISTING

DATE: 09/23/2004

PATENT APPLICATION: US/10/718,194

TIME: 13:55:30

Input Set : A:\60020240-0022.ST25.txt

Output Set: N:\CRF4\09232004\J718194.raw

3 <110> APPLICANT: Singulex, Inc.
 4 Puskas, Robert S.
 6 <120> TITLE OF INVENTION: Detection of Defined Highly Labeled Probes
 8 <130> FILE REFERENCE: 60020240-0022
 10 <140> CURRENT APPLICATION NUMBER: 10/718,194
 11 <141> CURRENT FILING DATE: 2003-11-19
 13 <150> PRIOR APPLICATION NUMBER: 60/427,232
 14 <151> PRIOR FILING DATE: 2002-11-19
 16 <150> PRIOR APPLICATION NUMBER: 60/427,233
 17 <151> PRIOR FILING DATE: 2002-11-19
 19 <150> PRIOR APPLICATION NUMBER: 60/427,234
 20 <151> PRIOR FILING DATE: 2002-11-19
 22 <160> NUMBER OF SEQ ID NOS: 11
 24 <170> SOFTWARE: PatentIn version 3.3
 26 <210> SEQ ID NO: 1
 27 <211> LENGTH: 56
 28 <212> TYPE: DNA
 29 <213> ORGANISM: Artificial Sequence
 31 <220> FEATURE:
 32 <223> OTHER INFORMATION: LNA/DNA
 35 <220> FEATURE:
 36 <221> NAME/KEY: misc_feature
 37 <222> LOCATION: (21)..(36)
 38 <223> OTHER INFORMATION: LNA
 40 <400> SEQUENCE: 1
 41 gctcaggaac aaagaaacgc agggagagag gaaggaattc accagtcaca cgacca
 44 <210> SEQ ID NO: 2
 45 <211> LENGTH: 56
 46 <212> TYPE: DNA
 47 <213> ORGANISM: Artificial
 49 <220> FEATURE:
 50 <223> OTHER INFORMATION: LNA/DNA
 53 <220> FEATURE:
 54 <221> NAME/KEY: misc_feature
 55 <222> LOCATION: (21)..(36)
 56 <223> OTHER INFORMATION: LNA
 58 <400> SEQUENCE: 2
 59 cagtaacaga tacaactca agggagagag gaaggaattc accagtcaca cgacca
 62 <210> SEQ ID NO: 3
 63 <211> LENGTH: 17
 64 <212> TYPE: DNA
 65 <213> ORGANISM: Artificial sequence
 67 <220> FEATURE:

Does Not Comply
Corrected Diskette Needed

pp 1-3

give source of genetic material as explanation
 for Artificial Sequence
 (see item 11 on
 Erra Summary
 Sheet

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56

RAW SEQUENCE LISTING

DATE: 09/23/2004

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TIME: 13:55:30

Input Set : A:\60020240-0022.ST25.txt

Output Set: N:\CRF4\09232004\J718194.raw

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68 <223> OTHER INFORMATION: LNA/DNA - Blocking Oligo
71 <220> FEATURE:
W--> 72 <221> NAME/KEY: LNA
73 <222> LOCATION: (1)..(17)
75 <400> SEQUENCE: 3
76 ctccttcctc tctccct 17
79 <210> SEQ ID NO: 4
80 <211> LENGTH: 20
81 <212> TYPE: DNA
82 <213> ORGANISM: Artificial
84 <220> FEATURE:
85 <223> OTHER INFORMATION: LNA/DNA - DNA Antisense Primer
87 <400> SEQUENCE: 4
88 attgatgccca ctttttcagc 20
91 <210> SEQ ID NO: 5
92 <211> LENGTH: 20
93 <212> TYPE: DNA
94 <213> ORGANISM: Artificial
96 <220> FEATURE:
97 <223> OTHER INFORMATION: DNA Antisense Primer
99 <400> SEQUENCE: 5
100 ggtgctgcta tcgatggttt 20
103 <210> SEQ ID NO: 6
104 <211> LENGTH: 22
105 <212> TYPE: DNA
106 <213> ORGANISM: Artificial
108 <220> FEATURE:
109 <223> OTHER INFORMATION: Sequence specific single-stranded probe
111 <400> SEQUENCE: 6
112 ggtcagtgcc ttgagtaaca gt 22
115 <210> SEQ ID NO: 7
116 <211> LENGTH: 35
117 <212> TYPE: DNA
118 <213> ORGANISM: Artificial
120 <220> FEATURE:
121 <223> OTHER INFORMATION: DNA/LNA
124 <220> FEATURE:
W--> 125 <221> NAME/KEY: LNA
126 <222> LOCATION: (2)..(2)
128 <220> FEATURE:
W--> 129 <221> NAME/KEY: LNA
130 <222> LOCATION: (5)..(5)
132 <220> FEATURE:
W--> 133 <221> NAME/KEY: LNA
134 <222> LOCATION: (8)..(8)
136 <220> FEATURE:
W--> 137 <221> NAME/KEY: LNA
138 <222> LOCATION: (11)..(11)
140 <220> FEATURE:

```

RAW SEQUENCE LISTING

DATE: 09/23/2004

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TIME: 13:55:30

Input Set : A:\60020240-0022.ST25.txt

Output Set: N:\CRF4\09232004\J718194.raw

```

W--> 141 <221> NAME/KEY: LNA
      142 <222> LOCATION: (14)..(14)
      144 <220> FEATURE:
W--> 145 <221> NAME/KEY: LNA
      146 <222> LOCATION: (17)..(17)
      148 <220> FEATURE:
W--> 149 <221> NAME/KEY: LNA
      150 <222> LOCATION: (23)..(23)
      152 <400> SEQUENCE: 7
      153 aggggaagaaa gcgaaaggag gctgccagcg acgag          35
      156 <210> SEQ ID NO: 8
      157 <211> LENGTH: 19
      158 <212> TYPE: DNA
      159 <213> ORGANISM: Artificial
      161 <220> FEATURE:
      162 <223> OTHER INFORMATION: DNA/LNA
      164 <400> SEQUENCE: 8
      165 cgacggtcgc tgctctcga          19
      168 <210> SEQ ID NO: 9
      169 <211> LENGTH: 20
      170 <212> TYPE: DNA
      171 <213> ORGANISM: Artificial
      173 <220> FEATURE:
      174 <223> OTHER INFORMATION: DNA Sense strand primer
      176 <400> SEQUENCE: 9
      177 attcaccagt cacacgacca          20
      180 <210> SEQ ID NO: 10
      181 <211> LENGTH: 20
      182 <212> TYPE: DNA
      183 <213> ORGANISM: Artificial
      185 <220> FEATURE:
      186 <223> OTHER INFORMATION: DNA Antisense Primer
      188 <400> SEQUENCE: 10
      189 aagccggagg ttaaaaaggt          20
      192 <210> SEQ ID NO: 11
      193 <211> LENGTH: 20
      194 <212> TYPE: DNA
      195 <213> ORGANISM: Artificial
      197 <220> FEATURE:
      198 <223> OTHER INFORMATION: DNA Antisense Primer
      200 <400> SEQUENCE: 11
      201 ggtgctgcta tcgatggttt          20

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/718,194

DATE: 09/23/2004
TIME: 13:55:31

Input Set : A:\60020240-0022.ST25.txt
Output Set: N:\CRF4\09232004\J718194.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:2,4,5,6,7,8,9,10,11

VERIFICATION SUMMARY

DATE: 09/23/2004

PATENT APPLICATION: US/10/718,194

TIME: 13:55:31

Input Set : A:\60020240-0022.ST25.txt

Output Set: N:\CRF4\09232004\J718194.raw

L:72 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3
L:125 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:7
L:129 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:7
L:133 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:7
L:137 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:7
L:141 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:7
L:145 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:7
L:149 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:7